

ABSTRACT

Fenestrated Asymmetric Intracardiac Device for the completion of total cavopulmonary connection through cardiac catheterization, having a bifurcated tubular conduct, constituted by two portions (1, 2) both made of a tubular mesh covered with an impermeable polymer. Upper end (5) of first portion (1) is progressively flattened to a substantially oval shape, with progressive cross sections of an equal area.

First portion (1) presents at least a lateral fenestration (5) which is selectively obturable. Second upper portion (2) bifurcates into two divergent branches (7, 6) and backwards forming with respect to the longest branch a deformed "Y", of which: branch (6) is the longest and is introduced into the left pulmonary artery, while branch (7) is shorter and lodges into the right shorted pulmonary artery.

The device defines a connection between the inferior vena cava and pulmonary branches, establishing a physiological distribution of the blood flow in both lungs.

